Performance Data Sheet

AE2413Y-FZ1A

General Information

Model	AE2413Y-FZ1A	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	440	401	362	324	289	257	231
	Watts	149	152	153	153	151	148	143
	Amps	1.47	1.47	1.47	1.47	1.46	1.45	1.43
	Lb/h	5.55	5.29	5.02	4.75	4.48	4.19	3.88
-35	Btu/h	542	495	448	402	358	317	280
	Watts	162	165	167	168	168	166	163
	Amps	1.49	1.50	1.50	1.50	1.50	1.49	1.48
	Lb/h	6.83	6.53	6.21	5.88	5.54	5.18	4.80
-30	Btu/h	659	605	551	496	442	391	344
	Watts	175	178	181	183	184	184	183
	Amps	1.52	1.53	1.54	1.54	1.54	1.53	1.53
	Lb/h	8.32	7.98	7.62	7.24	6.84	6.41	5.95
-25	Btu/h	792	730	668	604	541	480	422
	Watts	188	193	196	200	202	203	204
	Amps	1.55	1.56	1.57	1.58	1.58	1.58	1.58
	Lb/h	10.0	9.64	9.24	8.82	8.37	7.88	7.36
-20	Btu/h	939	870	799	727	655	583	514
	Watts	203	208	212	217	220	223	226
	Amps	1.59	1.60	1.61	1.62	1.63	1.64	1.65
	Lb/h	11.9	11.5	11.1	10.6	10.1	9.58	9.00
-15	Btu/h	1100	1020	945	864	782	701	620
	Watts	219	224	229	235	240	245	249
	Amps	1.63	1.64	1.66	1.67	1.69	1.70	1.71
	Lb/h	14.0	13.6	13.1	12.6	12.1	11.5	10.9
-10	Btu/h	1280	1190	1110	1020	923	831	740
	Watts	236	242	248	254	261	267	273
	Amps	1.68	1.69	1.71	1.73	1.75	1.77	1.79
	Lb/h	16.3	15.8	15.4	14.9	14.3	13.7	13.0
-5	Btu/h	1470	1380	1280	1180	1080	975	873
	Watts	254	261	268	276	283	291	300
	Amps	1.73	1.76	1.78	1.80	1.83	1.85	1.88
	Lb/h	18.7	18.3	17.9	17.3	16.7	16.1	15.4

0	Btu/h	1670	1570	1470	1360	1250	1130	1020
	Watts	275	282	290	299	308	318	328
	Amps	1.80	1.83	1.85	1.88	1.91	1.95	1.98
	Lb/h	21.4	21.0	20.5	20.0	19.4	18.7	18.0
5	Btu/h	1890	1780	1670	1550	1430	1300	1180
	Watts	298	306	315	324	335	346	358
	Amps	1.88	1.91	1.94	1.97	2.01	2.05	2.10
	Lb/h	24.3	23.9	23.4	22.9	22.3	21.6	20.8
10	Btu/h	2120	2000	1880	1750	1620	1480	1350
	Watts	323	332	342	353	364	377	391
	Amps	1.97	2.00	2.04	2.08	2.13	2.17	2.22
	Lb/h	27.3	26.9	26.5	26.0	25.4	24.7	23.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.155310E+03	2.497868E+02	1.754659E+00	2.290145E+01
C2	5.061563E+01	5.221848E+00	1.516750E-02	4.832250E-01
C3	-1.096257E+00	-1.322711E-01	-1.369918E-03	-2.963217E-03
C4	2.922855E-01	4.309111E-02	1.892115E-04	2.671017E-03
C5	-5.240540E-02	-3.142292E-02	-7.649050E-05	1.456373E-03
C6	-7.713633E-02	6.480668E-03	2.871151E-05	-1.530562E-04
C7	-3.957384E-04	3.681942E-04	2.020543E-06	-2.310390E-06
C8	-2.890098E-04	2.008946E-05	5.797068E-07	1.438290E-05
C9	-6.571517E-04	2.570771E-04	8.652801E-07	-7.325922E-06
C10	1.925992E-04	-1.110895E-05	-5.246669E-08	-5.486722E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

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Model	AE2413Y-FZ1A	**Refrigerant**	R-134a
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-40	Btu/h	416	346	282	231
	Watts (Power)	151	153	151	143
	Amps	1.47	1.47	1.46	1.43
	Lb/h	5.39	4.92	4.42	3.88
-35	Btu/h	603	508	414	330
	Watts (Power)	174	179	181	179
	Amps	1.52	1.53	1.53	1.52
	Lb/h	7.81	7.17	6.48	5.70
-30	Btu/h	839	718	594	476
	Watts (Power)	200	207	213	217
	Amps	1.58	1.60	1.61	1.62
	Lb/h	10.9	10.1	9.29	8.32
-25	Btu/h	1120	974	820	667
	Watts (Power)	229	239	249	259
	Amps	1.66	1.69	1.72	1.74
	Lb/h	14.6	13.8	12.8	11.7
-23.3	Btu/h	1230	1070	907	742
	Watts (Power)	239	251	262	274
	Amps	1.69	1.72	1.76	1.79
	Lb/h	16.0	15.2	14.2	13.0
-20	Btu/h	1450	1280	1090	901
	Watts (Power)	262	275	290	305
	Amps	1.76	1.80	1.85	1.90
	Lb/h	19.0	18.2	17.1	15.9
-15	Btu/h	1830	1620	1400	1180
	Watts (Power)	303	318	337	358
	Amps	1.90	1.95	2.02	2.10
	Lb/h	24.0	23.2	22.1	20.8
-10	Btu/h	2240	2010	1750	1490
	Watts (Power)	351	370	393	420
	Amps	2.08	2.15	2.24	2.34
	Lb/h	29.7	28.9	27.9	26.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.868919E+03	4.520209E+02	2.452848E+00	4.247710E+01
C2	1.172959E+02	1.513733E+01	5.959752E-02	1.288136E+00
C3	-1.576815E+01	-3.781854E-01	4.040251E-04	5.739156E-02
C4	7.939500E-01	2.562212E-01	1.301619E-03	9.426690E-03
C5	-3.659895E-01	-4.433700E-02	5.180326E-05	6.181983E-03
C6	-2.581491E-01	4.419579E-02	1.664183E-04	-1.426113E-03
C7	-2.307946E-03	2.147309E-03	1.178381E-05	-1.347419E-05
C8	-1.685505E-03	1.171617E-04	3.380850E-06	8.388107E-05
C9	-3.832509E-03	1.499274E-03	5.046314E-06	-4.272478E-05
C10	1.123239E-03	-6.478740E-05	-3.059857E-07	-3.199856E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

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